

Fig. 1

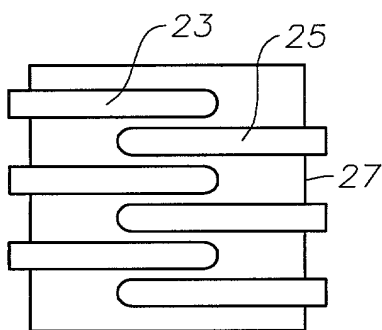


Fig. 2A

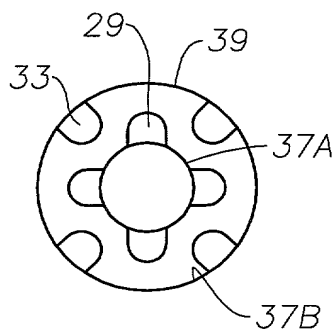


Fig. 2B

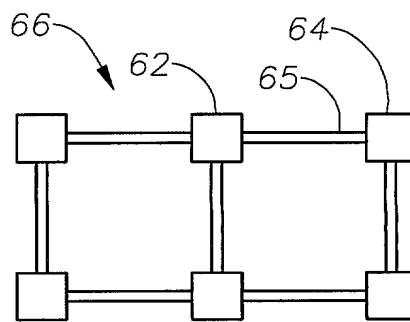
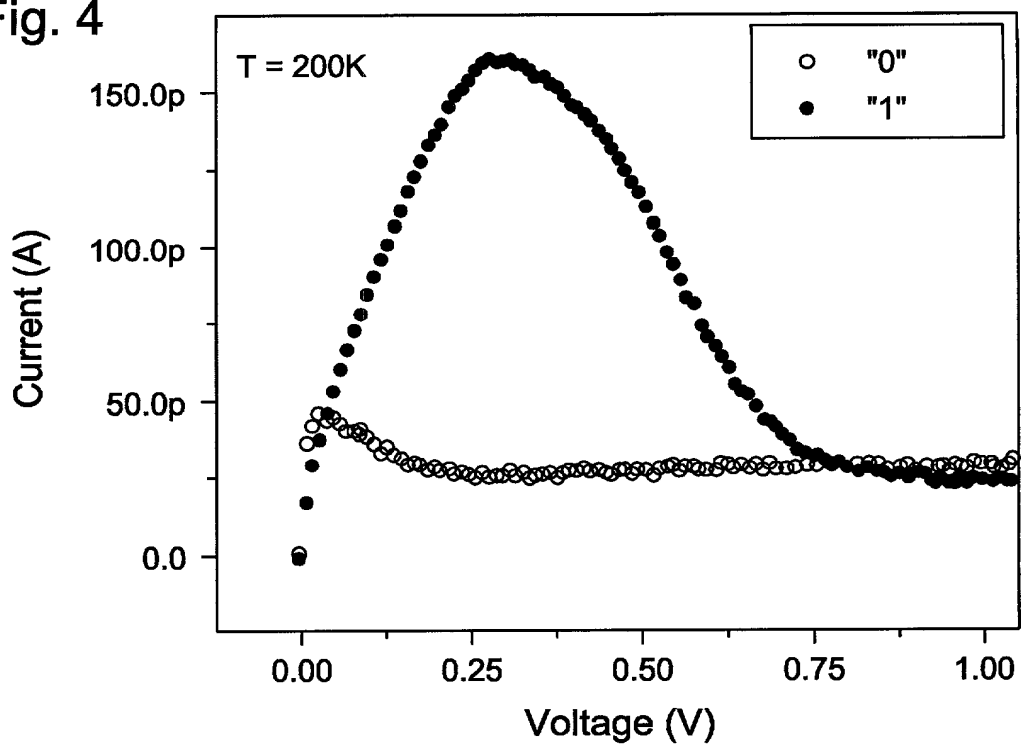


Fig. 5

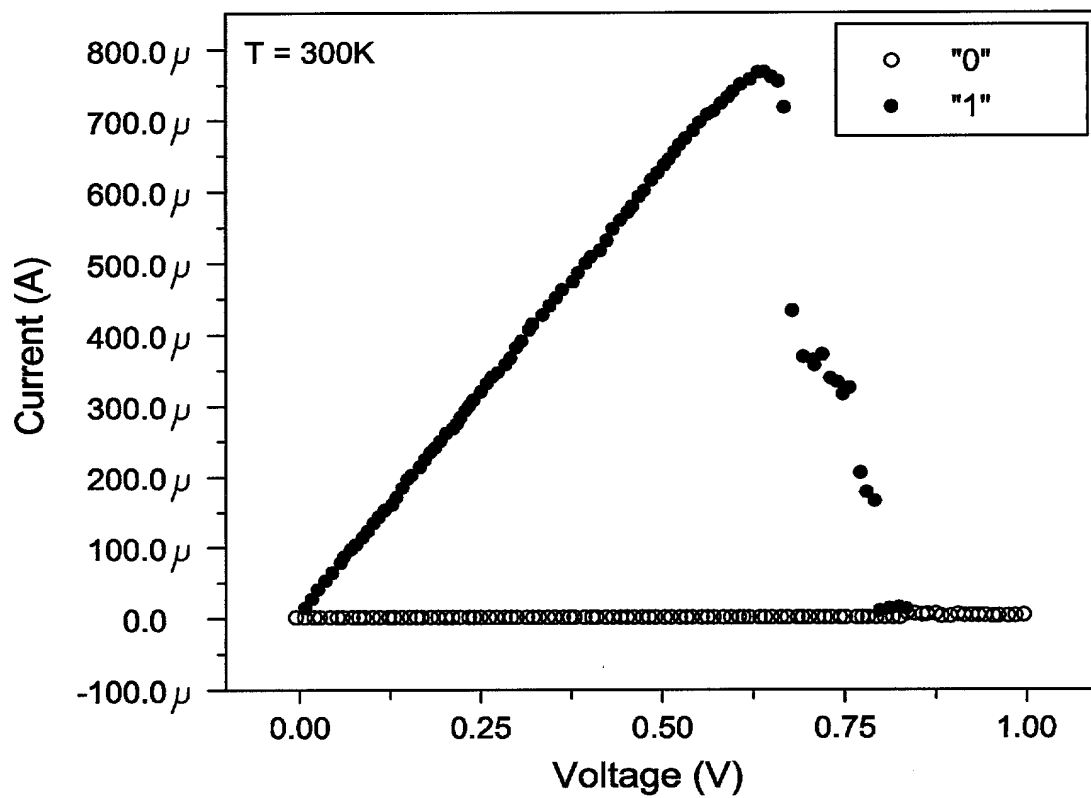
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1, X = H

Fig. 4



2, X = NO₂



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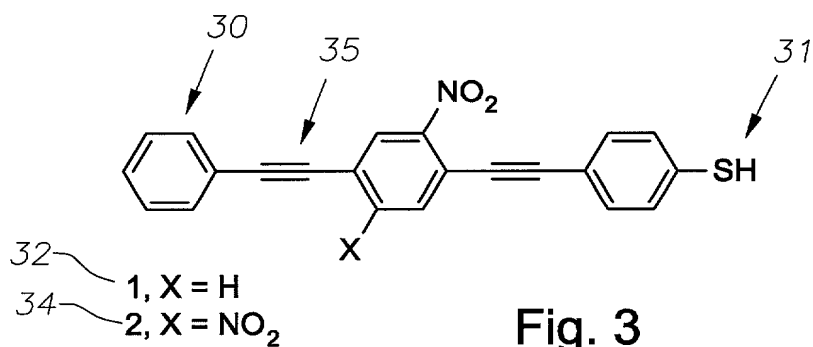


Fig. 3

Untrained Nanocell

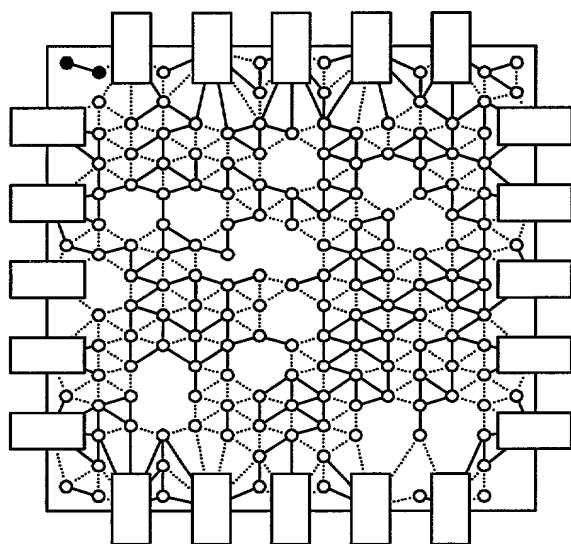


Fig. 7

Nanocell Trained as Inverter

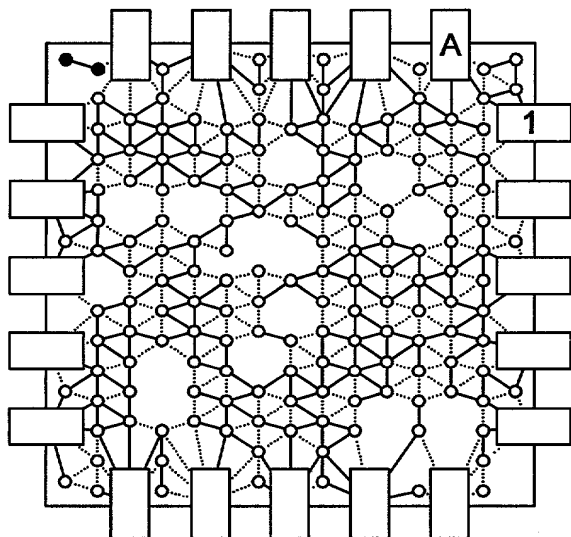


Fig. 8

Inverter Truth Table	
Input A	Output 1
0	1
1	0

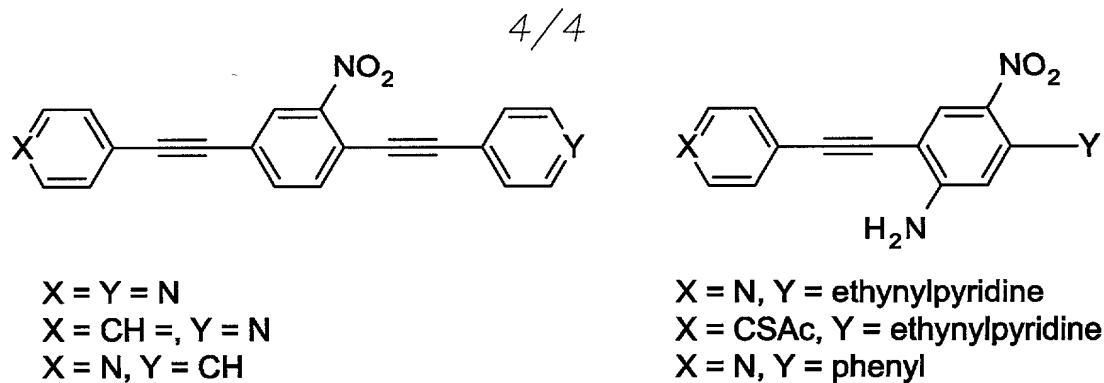


Fig. 6

Nanocell Trained as Nand

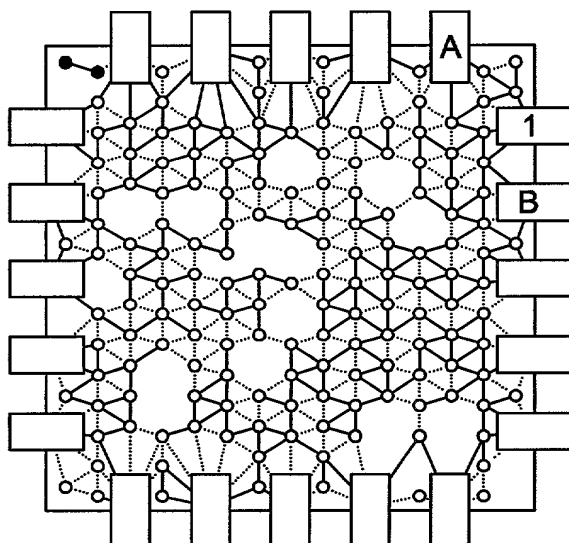


Fig. 9

Nand Truth Table		
Input A	Input B	Output 1
0	0	1
0	1	1
1	0	1
1	1	0

Nanocell Trained as Inverse Half Adder

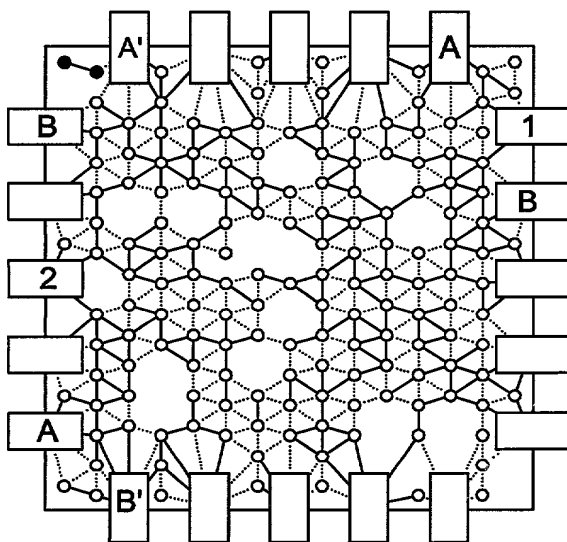


Fig. 10

Inverse of Half Adder Truth Table			
Input A	Input B	Output 1	Output 2
0	0	1	1
0	1	1	0
1	0	1	0
1	1	0	1